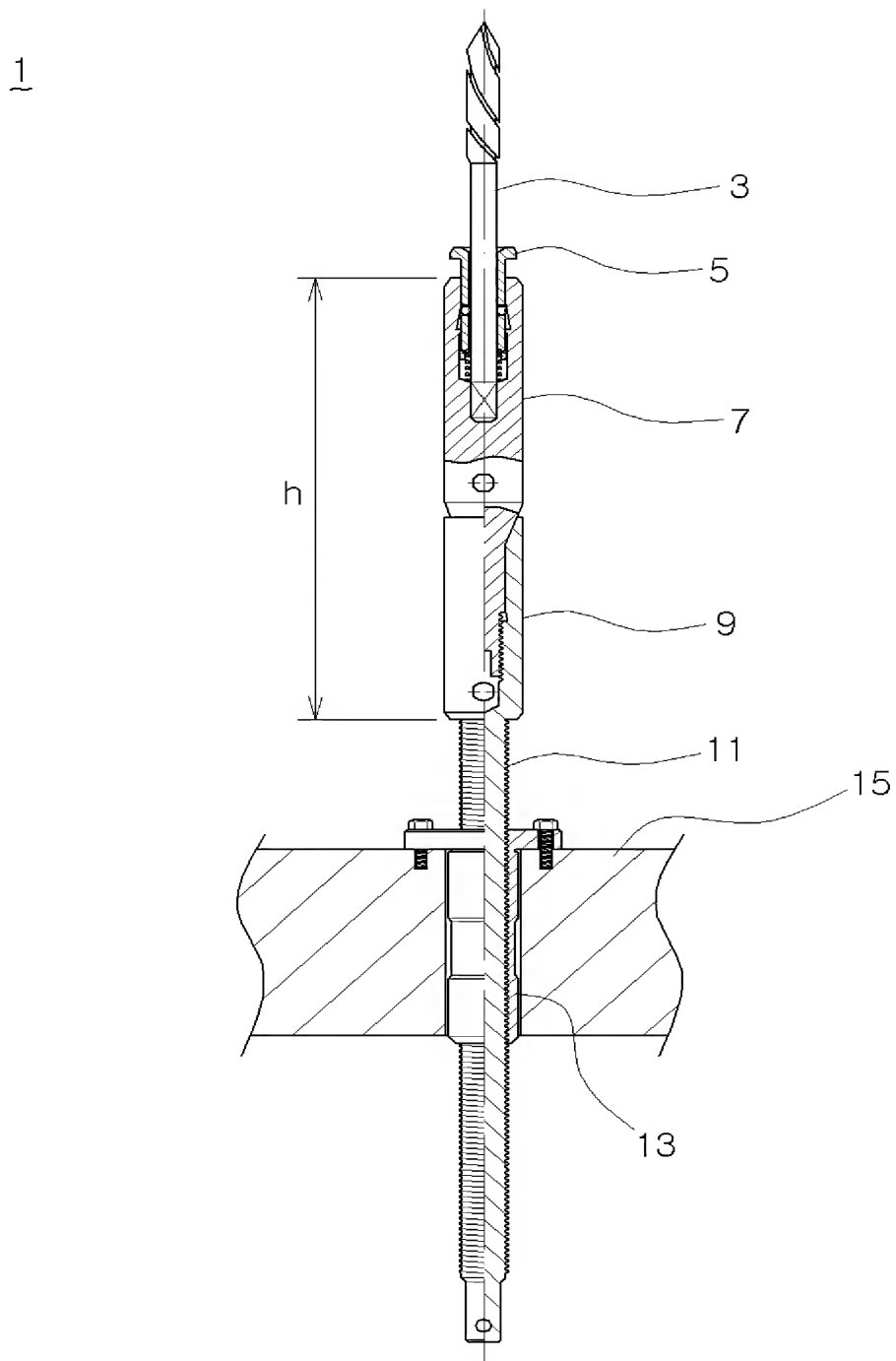
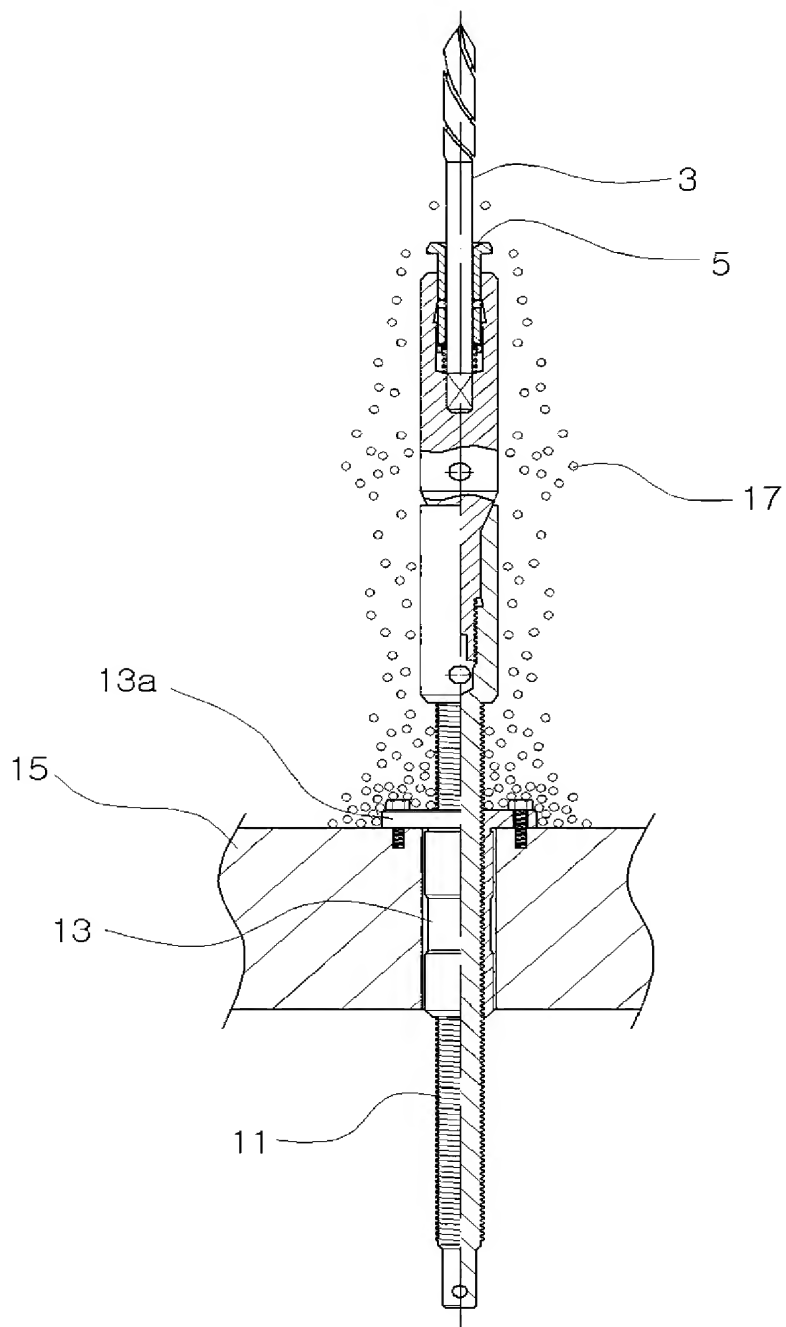


[Fig. 1]



[Fig. 2]



[Fig. 3]

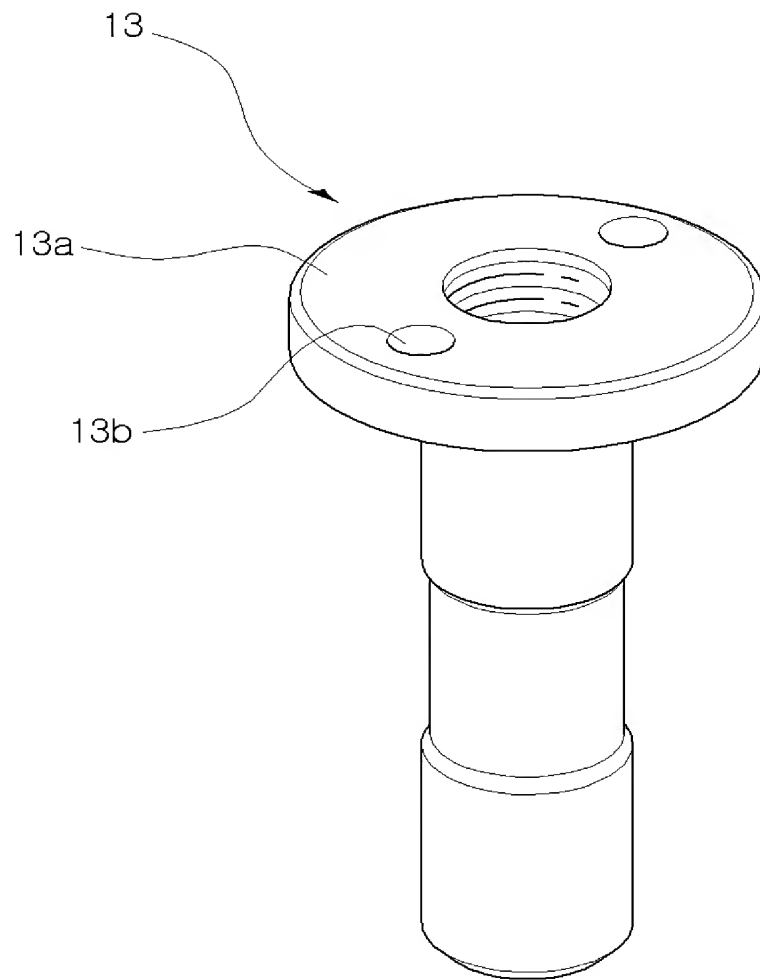
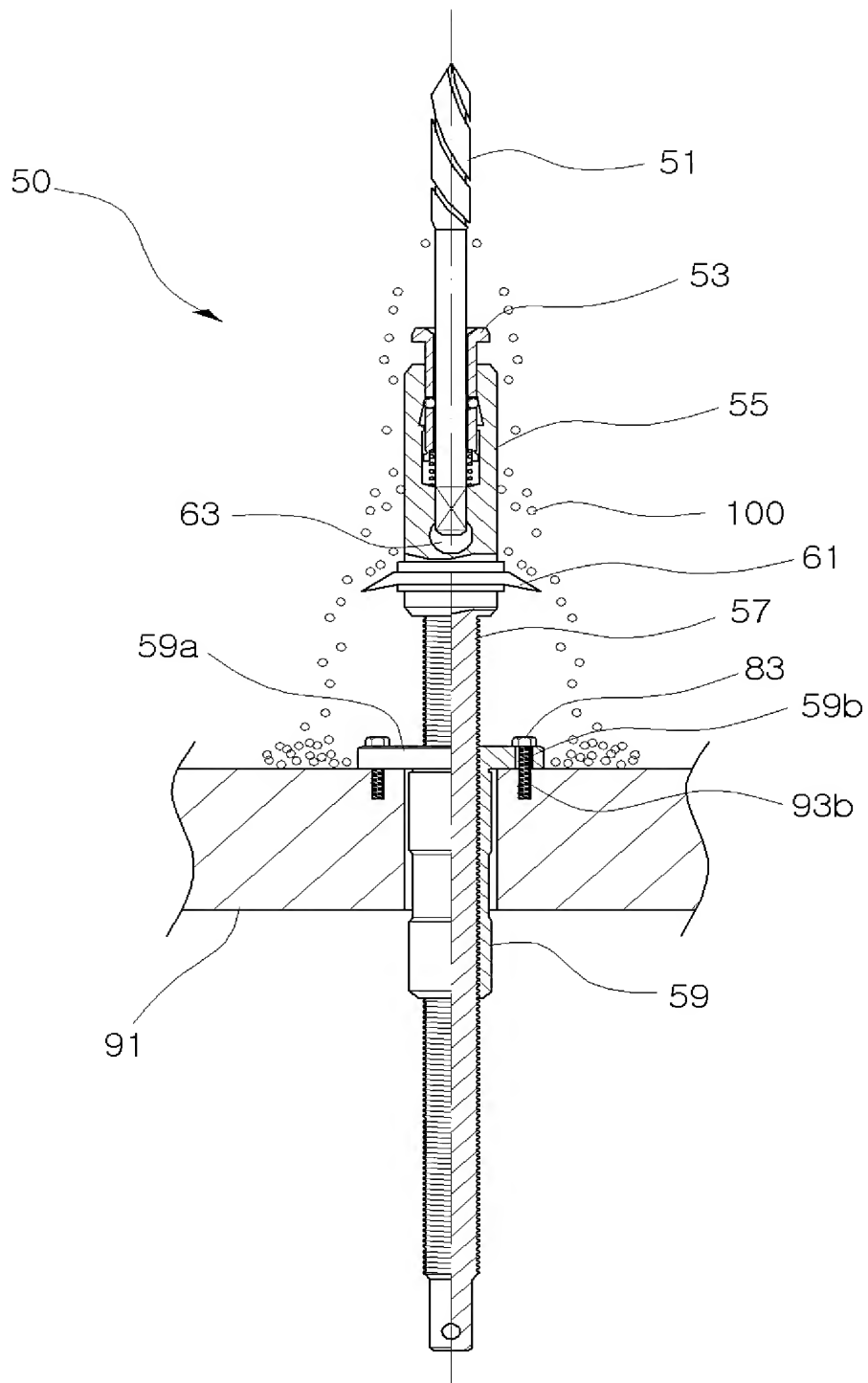
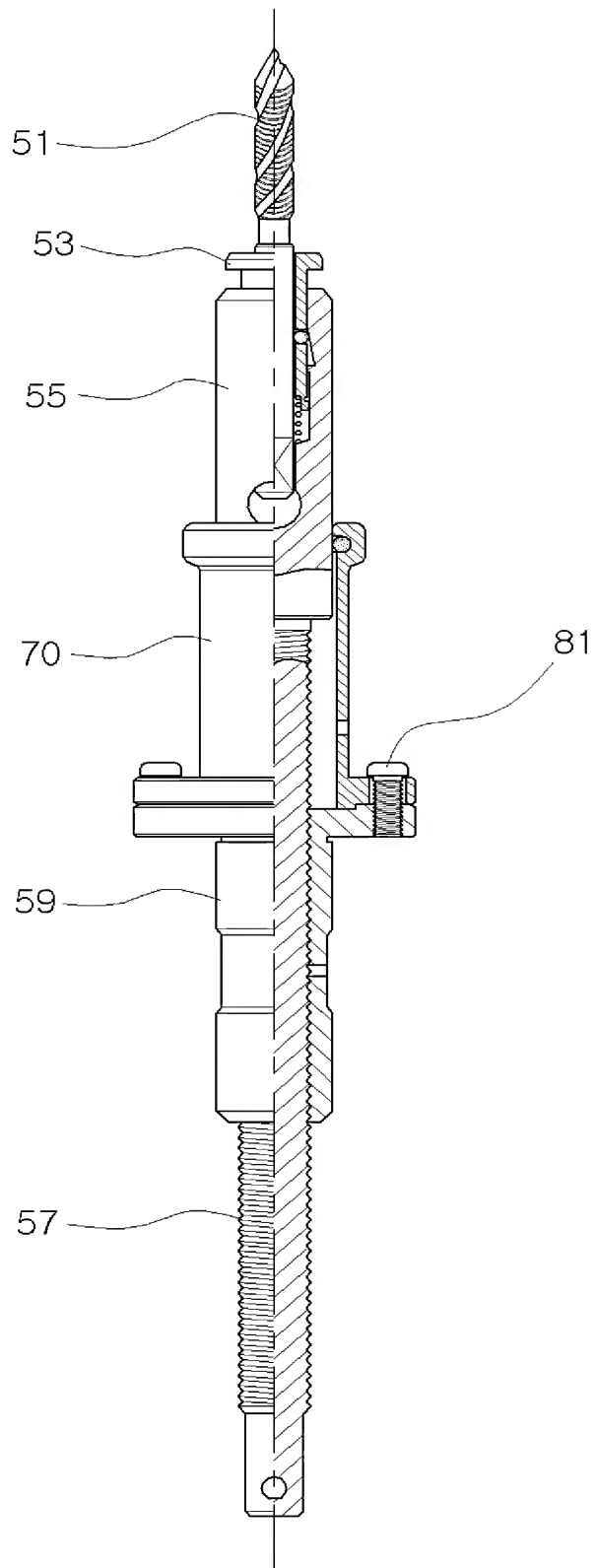


Fig. 1 is a cross-sectional view of a drilling tool assembly 50. The assembly includes a drill bit 51, a drill pipe 53, a drill collar 55, a drill collar 63, a drill collar 61, a drill collar 57, and a drill collar 59. A dimension line 'S' indicates the length of the drill collar 55.

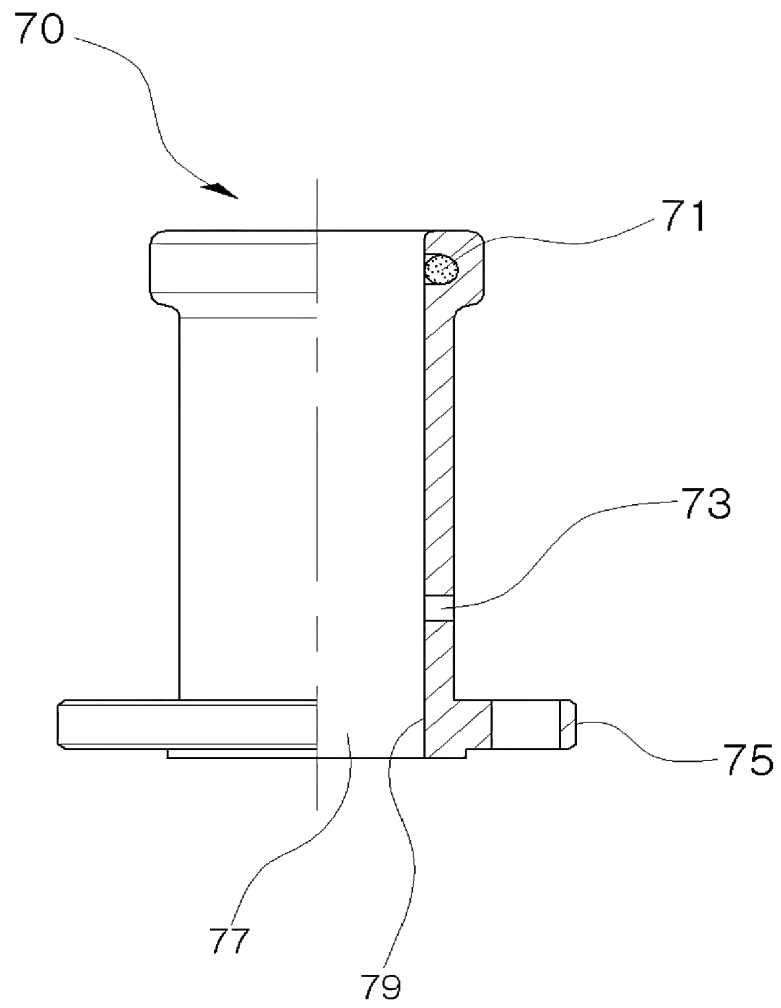
[Fig. 5]



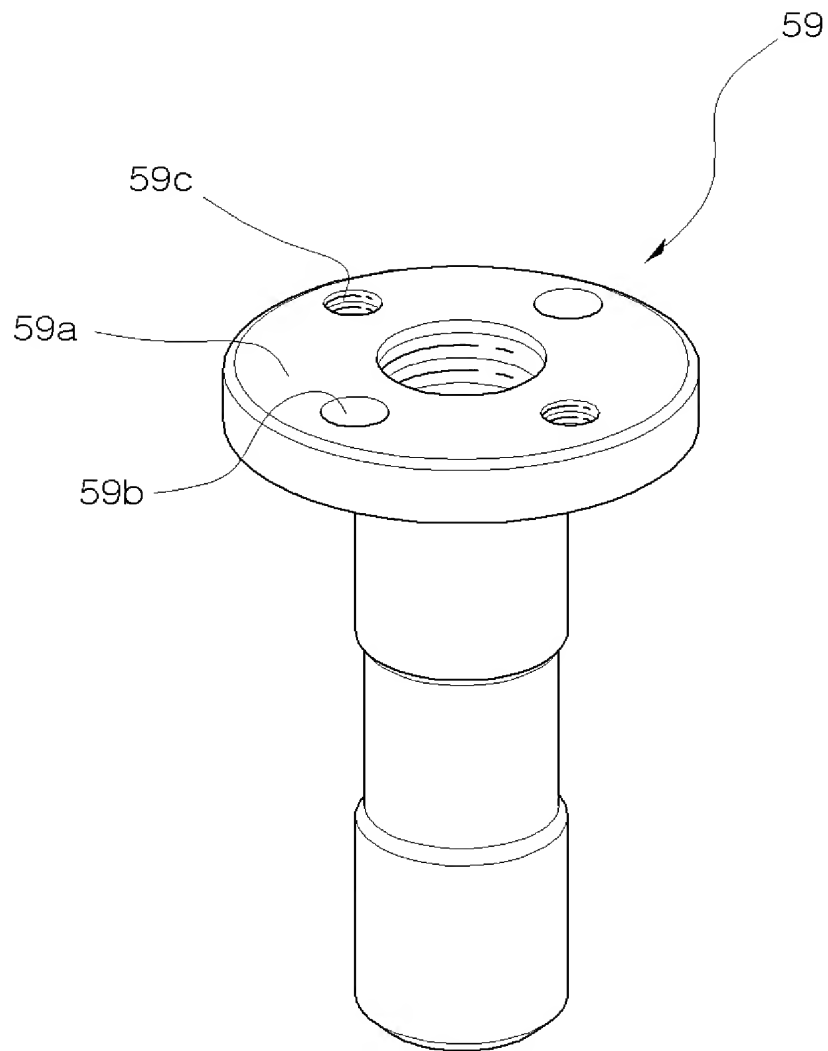
[Fig. 6]



[Fig. 7]



[Fig. 8]





[Fig. 9]

